



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,368	05/09/2005	Philippe Leyvraz	4358-14	8216
23117 7590 01/09/2008 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203			EXAMINER HEINRICH, SAMUEL M	
			ART UNIT 1793	PAPER NUMBER
			MAIL DATE 01/09/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/518,368	LEYVRAZ, PHILIPPE	
	<b>Examiner</b>	<b>Art Unit</b>	
	Samuel M. Heinrich	1725	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-35 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 December 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/17/04 one sheet</u> . | 6) <input type="checkbox"/> Other: ____.  |

## **DETAILED ACTION**

### ***Information Disclosure Statement***

The information disclosure statement filed December 17, 2004 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1-35, the independent claims recite a feature and subsequently recite "in particular" which causes the exact scope of the claims to be unclear. Claim 1 (and dependent claims 2-14) include reference numbers within parenthetical limitations which cause the scope of the claims to be unclear. Claim 7, "the impingement points of the light impulses" has no clear antecedent basis. Claim 10, "the neck" has no clear antecedent basis. Claim 12, "preferably" is not a clear description. Claims 32 and 35 provide no further limitation to the respective base claim.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of USPN 6,160,568 to Brodsky et al in view of USPN 6,211,485 to Burgess in view of USPN 5,172,326 to Campbell, Jr. et al. AAPA describes (Specification, State of the Art) well known laser marking, mirror beam guides, glass texturing with laser wavelengths of about 193nm to about 351nm, workpiece transport, glass bottle workpiece, and inspection of engraved marks using a CCD camera. Brodsky et al describe (column 1, lines 36+) well known use of laser marking with a coated surface wherein the beam is steered in multiple dimensions with mirrors, and describe (column 11, lines 8-12) employing glass as a workpiece, and describe (e.g., Claim 30) use of feedback for control of the laser. Brodsky et al describe a chemical reaction which provides a visible change under the influence of a laser beam. Burgess describes (column 10, lines 20-25) monitoring and rejecting or removing a workpiece from the laser drill system. Campbell, Jr. describe a laser cutting means and work conveyor means including "means for controlling said movable laser beam cutting means and said conveying means to cut the web by simultaneously moving said conveying means and said movable laser beam cutting means".

The use of automated feedback or monitoring with AAPA would have been obvious at the time applicant's invention was made to a person having ordinary skill in

the art because it provides rapid operation and reduces human monitoring. The particular claimed etch dimensions, locations, and beam energies would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art depending on the particular workpiece. The particular marking, code marking, or point coding etch sequences, shapes, and locations would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art depending on the known workpieces which are being marked.

Claims 14 and 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of USPN 6,160,568 to Brodsky et al in view of USPN 6,211,485 to Burgess in view of USPN 5,172,326 to Campbell, Jr. et al as applied to claims 1 and 23 above, and further in view of JP02001062579A.

JP02001062579A describes well known CCD camera detection of light transmitted through the workpiece and the use of such monitoring means would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because it provides good machine tool feature accessibility.

### ***Conclusion***

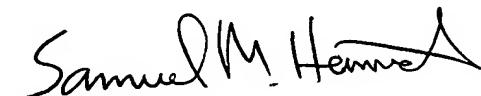
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kwon disclose laser and mirrors for marking glass. Kniess et al describe marking coated articles. Nakajima describe CCD camera detection of marks with diffracted or scattered light. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

Application/Control Number:  
10/518,368  
Art Unit: 1725

Page 5

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. Johnson can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Samuel M Heinrich  
Primary Examiner  
Art Unit 1725

SMH